IBM WebSphere Extended Deployment V6.1.0.3 delivers VMware support and seamless DB2 and Oracle Database integration

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At a glance

WebSphere® Virtual Enterprise is designed to:

• Reduce operational and energy costs by fully utilizing hardware and application servers
• Increase flexibility and agility to quickly supply "capacity" for new applications or services
• Enhance traffic shaping and flow control through intelligent routing of application and service requests to speed results and avoid conflicts
• Deliver resources dynamically to your highest priority applications
• Increase application availability, resiliency, and performance improving quality of service
• Achieve interruption-free application upgrades by running multiple production versions

WebSphere eXtreme Scale offers:

• Fast application performance -- Use as a powerful distributed cache to speed application access to data
• Foundation for high-throughput transaction processing -- Can increase responsiveness and accelerates the performance of data-intensive applications yielding higher throughput
• Linear scalability
• High availability and fault tolerance -- Can lower risks of data loss and limit after-hours recovery efforts
• Automatic replication of data -- Can lower management burden and ensure data availability

Compute Grid lets you:

• Utilize batch processing with Java™ on multiple platforms, including development frameworks and tooling, to provide a robust management infrastructure for submitting, monitoring, and controlling batch workloads.
• Avoid costly duplication of resources by combining transactional and batch-type workloads on distributed platforms, increasing operational efficiency and resource utilization.
• Take full advantage of server resources by using a common pool of virtualized resources for multiple application types.
• Optimize service levels with a common set of service policies across both OLTP and batch workloads, in conjunction with WebSphere Virtual Enterprise.
• Scale batch workloads across a large number of processing resources using parallel job management services to accelerate job completion time and achieve required service levels.

For ordering, contact your IBM representative, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).
Overview

IBM® WebSphere Extended Deployment V6.1.0.3 is a suite of three powerful application infrastructure products: WebSphere Virtual Enterprise, WebSphere eXtreme Scale, and WebSphere Extended Deployment Compute Grid, with the following enhanced capabilities:

- **WebSphere Virtual Enterprise** (formerly Extended Deployment Operations Optimization) provides support for VMware ESX Server 3.5 environments
- **WebSphere eXtreme Scale** (formerly Extended Deployment Data Grid) provides:
  - Seamless integration with Oracle and IBM DB2® databases to allow automated, bi-directional synchronization between WebSphere eXtreme Scale and both databases
  - Automatic data loaders for both OpenJPA (Java Persistence API) and the Hibernate persistence service
  - Data locality, or zone support, enhanced to provide proximity based routing which intelligently routes data access requests to the nearest partition
  - Performance enhancements and streamlined application programming interfaces improve usability, developer productivity, and enhance support for the Spring Framework
- **WebSphere Extended Deployment Compute Grid** contains a parallel job manager, which enables scalable job parallelization
- **WebSphere Extended Deployment V6.1.0.3** now supports IBM WebSphere Portal V6.1 for supported WebSphere Portal platforms

WebSphere Extended Deployment V6.1.0.3 supports Getting Started Sub-capacity Pricing for z/OS®. This support satisfies the statement of direction contained in Software Announcement 208-088, dated April 22, 2008.

Planned availability date

**August 1, 2008**

Description

**Take VMware environments to the next level with WebSphere Virtual Enterprise and Application Infrastructure Virtualization**

WebSphere Virtual Enterprise V6.1.0.3 fully supports VMware ESX Server 3.5 environments. You can utilize the full complement of WebSphere Virtual Enterprise functionality with VMware ESX Server 3.5 environments, including dynamic clusters, service policy goals with autonomic request flow management (using the Autonomic Request Flow Manager component), and the use of the Application Placement Controller (APC) to place long-running, or batch, jobs when used in conjunction with WebSphere Extended Deployment Compute Grid. In addition, multiple application servers, or nodes, can be supported within an individual virtual or physical machine.

Use WebSphere Virtual Enterprise in conjunction with VMware ESX Server, and other server virtualization technologies such as IBM PowerVM™, to extend the value of virtualization to incorporate an application-oriented approach to virtual infrastructure management. Application Infrastructure Virtualization provides the ability to separate applications from the physical and virtual infrastructure they run on. Workloads can then be dynamically placed and migrated across a pool of application server resources allowing the infrastructure to dynamically adapt and respond to business needs in real time. Requests can be prioritized and intelligently routed to respond to the most critical applications and users.

Extend the value of your VMware environments by enabling:

**Enhanced isolation characteristics and resiliency**

- Ensure an application within a virtual machine does not consume all resources in the virtual machine and impact other applications running in the virtual machine.
• Prevent potential over-commitment, by virtual machines, of physical resources (for example, memory)
• Health management of applications - fixing the problem, or routing work around the problem

**Increased management efficiencies** - Increase utilization of virtual machines using intelligent workload management to prevent virtual machine sprawl and ensure optimization goals are met across the entire set of virtual machines in an infrastructure.

WebSphere Virtual Enterprise can also work with and extend the value of other virtualization technologies, such as IBM PowerVM and Solaris Containers, if resource allocations are fixed and not modified dynamically. For IBM PowerVM, WebSphere Virtual Enterprise supports:

• LPARs with fixed CPU resources
• LPARs with fixed fractional allocation of CPU resources
• DLPAR with whole (non-shared) allocation

WebSphere Virtual Enterprise does not work with or support dynamic micro-partitioning (shared resource pool across multiple partitions) using the IBM PowerVM virtualization capabilities.

For additional information on the value proposition of WebSphere Virtual Enterprise and virtualization visit

WebSphere_Virtual_Enterprise_wp.pdf

**Enhanced database and back-end data store capabilities and integration with WebSphere eXtreme Scale**

Distributed data architectures, aimed at improving transaction performance and providing extreme scalability, often require interfacing with backend databases or data stores to either load or store data persistently. To facilitate this integration and to enhance support for extreme transaction processing and caching scenarios, WebSphere eXtreme Scale V6.1.0.3 includes a number of features aimed at improving the integration and usability with backend data stores.

WebSphere eXtreme Scale provides seamless integration with Oracle and IBM DB2 databases to allow automated, bi-directional synchronization between WebSphere eXtreme Scale and both databases. Both write-through and write-behind semantics are supported. The new write-behind loader support enables more flexible data invalidation and reloading capabilities with full transactional support. In addition, WebSphere eXtreme Scale provides automatic data loaders for OpenJPA (Java Persistence API) and the Hibernate persistence service. WebSphere eXtreme Scale can provide level 2 caching for JPA and Hibernate persistence approaches.

In distributed data architectures, a key performance optimization is related to accessing data that is the nearest, or close in proximity to where the data is accessed, or requested. WebSphere eXtreme Scale includes support for partition placement into zones. This function allows more control over how WebSphere eXtreme Scale places partitions across the distributed data grid infrastructure. Java virtual machines that host a WebSphere eXtreme Scale server can be tagged with a zone identifier. Further, the deployment file includes one or more zone rules and these zone rules are associated with a partition type. This capability is useful to ensure that data primaries and replicas are placed in different locations or zones for high availability. WebSphere eXtreme Scale data locality, or zone support, has been enhanced to provide proximity-based routing, which intelligently routes data access requests to the nearest partition, either primary or replica, from where the data access request originates.

WebSphere eXtreme Scale also includes a number of performance enhancements such as, streamlined application programming interfaces to improve usability and developer productivity, and enhancement for the Spring Framework integration.

**Enablement of massively parallel batch job scenarios with Compute Grid**

Batch, or long running, programs process numerous records, which can often be divided logically for parallel processing across many processing nodes across the batch infrastructure. This significantly reduces the elapsed time for long running jobs for improved service level attainment and to support your effort for real-time, or straight-through, processing. WebSphere Extended...
Deployment Compute Grid provides a parallel job manager, which enables massively scalable job parallelization.

The parallel job manager provides powerful, easy-to-use parallel control application programming interfaces. It introduces the notion of a logical job, which is an abstraction that simplifies operational control and significantly simplifies the semantics associated with administration of massively parallel jobs. You can combine this capability with WebSphere eXtreme Scale to build high-performance "eXtreme Batch" applications that combine the powerful nature of massively powerful batch with the high-performance characteristics provided by the use in-memory caches. This reduces overall job execution time and improves your ability to meet service level commitments.

**IBM Getting Started Sub-capacity Pricing for z/OS is supported**

All features of WebSphere Extended Deployment fully support Getting Started Sub-capacity Pricing for z/OS.

For information on this capability, refer to Software Announcement 208-088, dated April 22, 2008.

**New names for WebSphere Extended Deployment products**

The WebSphere Extended Deployment Operations Optimization feature of WebSphere Extended Deployment is renamed WebSphere Virtual Enterprise.

The WebSphere Extended Deployment Data Grid feature is renamed WebSphere eXtreme Scale.

**Obtaining WebSphere Extended Deployment V6.1.0.3**

You can download WebSphere Extended Deployment V6.1.0.3 from WebSphere Extended Deployment support. Visit


**Accessibility by people with disabilities**

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at


**Program numbers**

5655-P28 WebSphere Extended Deployment for z/OS V6

5724-J34 WebSphere Extended Deployment V6

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